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Standards

Irish Standard  
I.S. EN 4604-008:2009

# Aerospace series - Cable, electrical, for signal transmission - Part 008: Cable, coaxial, 50 ohms, 200 °C., Type WD - Product standard

## I.S. EN 4604-008:2009

*Incorporating amendments/corrigenda issued since publication:*

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EUROPEAN STANDARD

**EN 4604-008**

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August 2009

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English Version

**Aerospace series - Cable, electrical, for signal transmission -  
Part 008: Cable, coaxial, 50 ohms, 200 °C., Type WD - Product  
standard**

Série aérospatiale - Câbles électriques pour transmission  
de signaux - Partie 008: Câble, coaxial, 50 ohms, 200 °C,  
type WD - Norme de produit

Luft- und Raumfahrt - Elektrische Leitungen für  
Signalübertragungen - Teil 008: Koaxialkabel, 50 Ohm, 200  
°C, Typ WD - Produktnorm

This European Standard was approved by CEN on 20 June 2009.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

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## **Foreword**

This document (EN 4604-008:2009) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, prior to its presentation to CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 2010, and conflicting national standards shall be withdrawn at the latest by February 2010.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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## 1 Scope

This standard specifies the required characteristics of a coaxial cable, 50  $\Omega$ , type WD, for use in aircraft electrical systems at operating temperature between – 55 °C and 200 °C and specially for high frequency up to 8 GHz. Nevertheless, if needed, – 65 °C is also acceptable as shown by thermal stability test.

## 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 3475-100\*, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 100: General.*

EN 4604-001, *Aerospace series — Cable, electrical, for signal transmission — Part 001: Technical specification.*

EN 4604-002, *Aerospace series — Cable, electrical, for signal transmission — Part 002: General.*

TR 6058, *Aerospace series — Cable code and identification list.* <sup>1)</sup>

ASTM-B298-99, *Standard specification for silver-coated soft or annealed copper wire.* <sup>2)</sup>

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 3475-100 apply.

## 4 Required characteristics

### 4.1 Material, constructions, dimension and mass

#### 4.1.1 Material

See Table 1.

**Table 1 — Material**

	Material	Finish	Colour
Conductor	Multi-strands copper per ASTM-B298-99	Class A silver plated	—
Dielectric	Fluorocarbon	—	—
Shield	2 braids, copper per ASTM-B298-99.	Class A silver plated	—
Jacket	Fluorocarbon	—	white

\* And all parts quoted in this standard.

1) Published as ASD Technical Report at the date of publication of this standard.

2) Published by: American Society for Testing and Materials (ASTM), 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959 USA.

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